OmniScanner Installation Guide

Includes troubleshooting

60-0124 Rev F

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Installation

Overview

This chapter describes how to:

- Configure OmniCenter for OmniScanner
- Install the OmniScanner into a cabinet
- Mount the scanner cradle

Requirements

Tools

- ESDS Wrist Strap
- Screwdriver
- 1/8 Drill Bit, Driver (for mounting cradle)

Parts

See "Parts List" on page A-1 for more details.

Figure 1-1. OmniScanner Kit Parts

Software

These are the minimum requirements to run OmniScanner.

- OmniCenter software version 12 or above
- Color Touch software version 5.9 or above

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For the latest OmniScanner features, use these specifications:

- OmniCenter software version 12.0 or above
- Color Touch software version 5.9 or above

This optional specification is the same regardless of the other software used.

- Remote Items Option Key or Remote Item Omnis Option Key (when applicable)

Procedures

These procedures are for installing the OmniScanner when it is purchased separately.

OmniCenter Settings

To implement the OmniScanner product, the following steps must be taken at the OmniCenter.

Remote Items Option (if applicable)

If the number of assigned Remote Supply Items do not exceed 125, proceed to—Assign Items as "Remote Items".

If the client requests more than the default number of 125 supply remote items, the Omnicell SSD must order the additional number (in increments of 250) by submitting a quote to Omnicell Order Entry. Order Entry will then email new Option Keys to the Field Engineer.

The Option Keys are encrypted with the CSN# and expiration date. One key represents the number of additional remote items and the second key allows the defined number of OmniSuppliers access to the addition.

1. Enter the option keys in the OmniCenter application.
   a. Click the **Database** tab, then select Global Settings for Tables.
   b. Go to the Limits fields and select Resource Type, Equals, License.
   c. Select Resource Subtype RI ITEMS S, then click **Modify**.

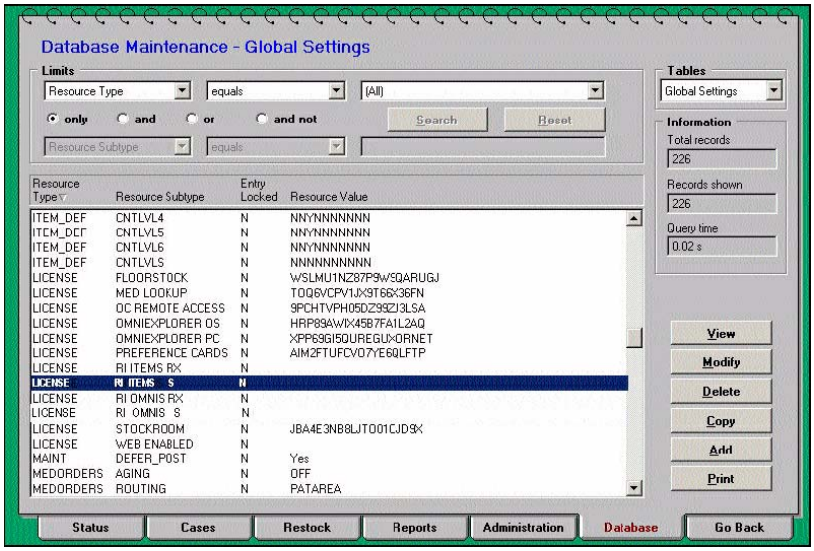

Figure 1-2. Database tab, Global Settings View—Resource Type Equals LICENSE List

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d. Go to the Resource Value field and enter the Remote Items Option Key.

e. Click **Save**.

f. Click **OK** on the update confirmation window.

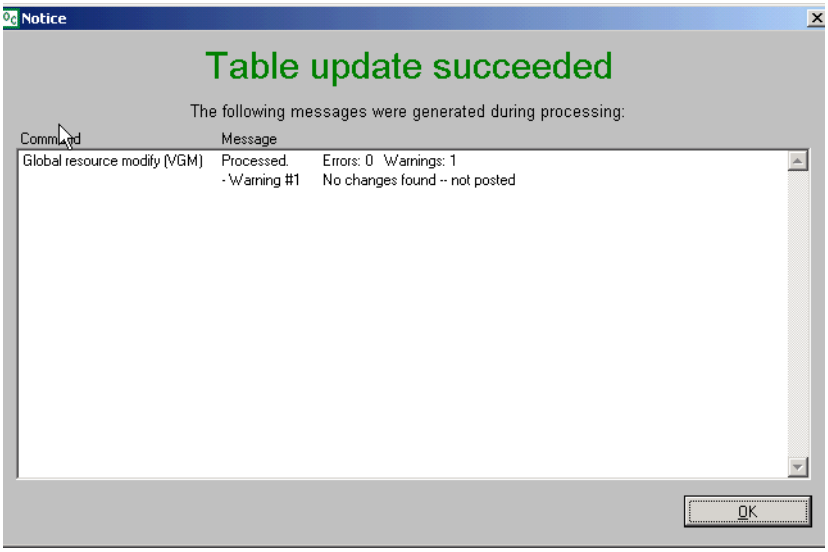

Figure 1-3. Save Confirmation

g. Click **Go Back** to return to the Global Settings list.

Note: If the entered Option Key is valid, the word "Valid" appears next to the Resource Value field once Save is clicked. If the Option Key is incorrect or invalid, the word "Invalid" appears. If invalid, click Modify to re-enter the Key.

h. Select Resource Subtype RI OMNIS S, then click **Modify**.

i. Go to the Resource Value field and enter the Remote Items OmniSupplier Option Key.

j. Click **Save**.

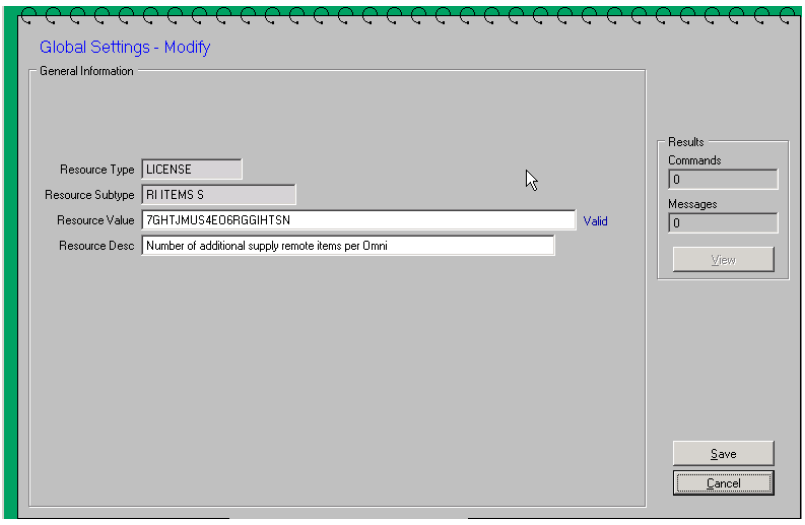

Figure 1-4. Database tab, Global Settings View—Modify Resource Value

2. Enable remote items on the cabinets.

   Once the appropriate Option Keys have been entered, the feature must be enabled on the OmniSupplier record for each cabinet requiring the additional Remote Items.

   a. Go to **View Mode**, then select the appropriate OmniSupplier from the table.

   b. Select the **Lic Features** subtab (radio button).

   c. Click **Modify**.

   d. Go to the Remote Items section and select the **Remote Item (S**) field.

   e. Click **Save**.

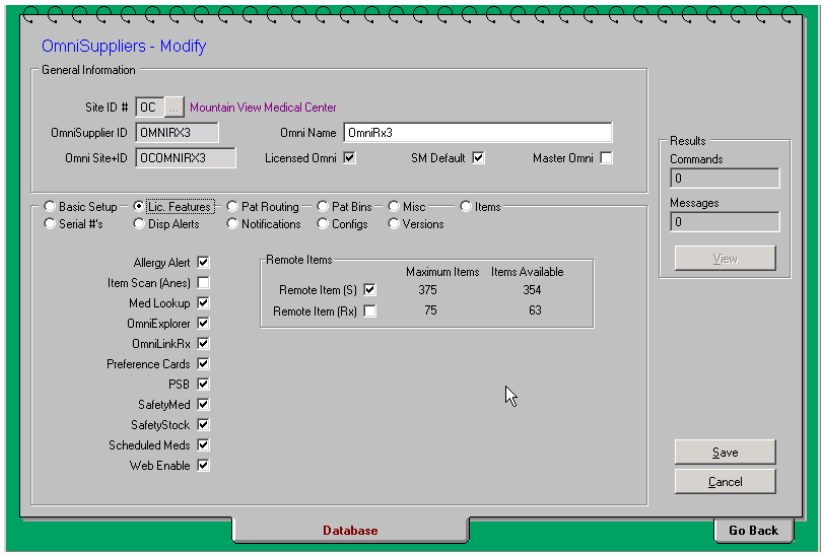

Figure 1-5. Database tab, OmniSuppliers Modify

3. View the *Remote Items Availability Report*.

   a. Click the **Reports** tab.

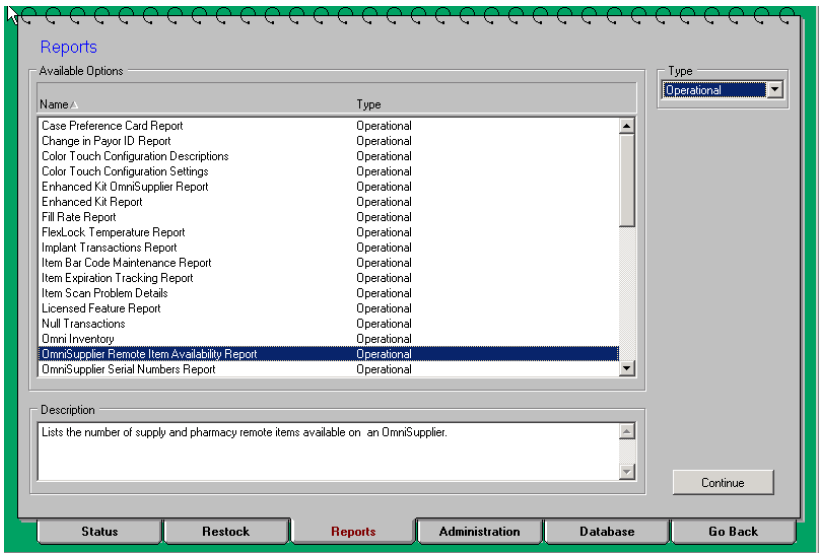

Figure 1-6. Report tab

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b. Select Operational for the Type field**.**

c. Select OmniSupplier Remote Items Availability Report for the Name field.

d. Click **Continue**.

e. Specify OmniSupplier and order.

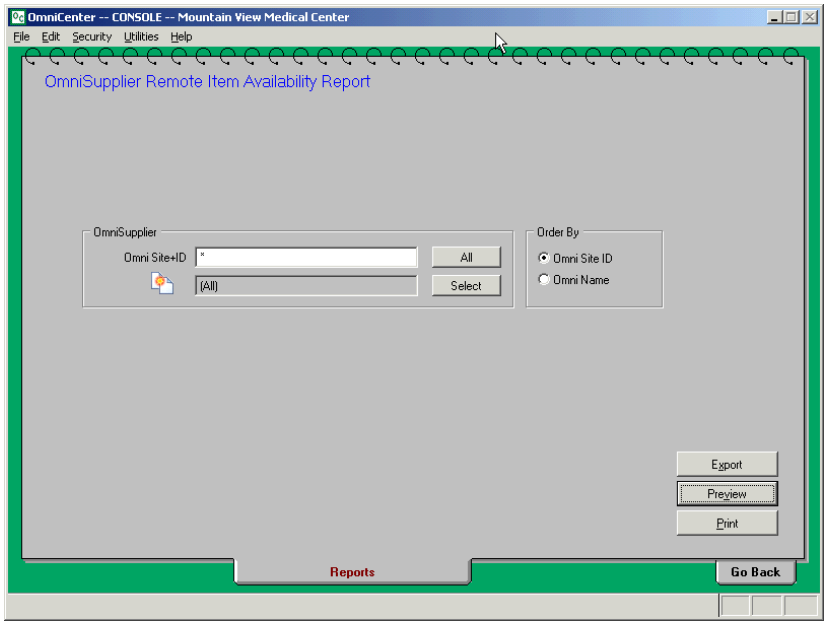
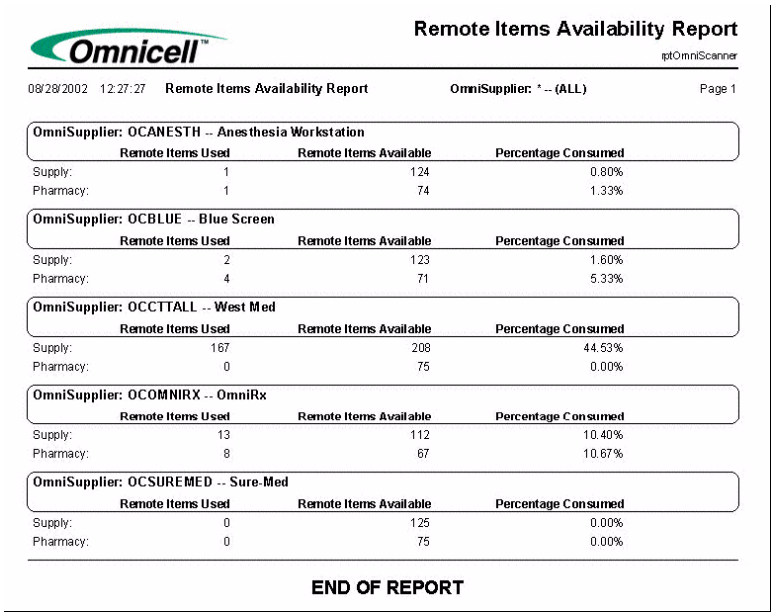


Figure 1-7. Report Options

f. Click **Print** (for a hard copy) or **Preview** (to display the report on the screen).



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Remote Items Availability Report

rptOmniScanner

08/28/2002 12:27:27 **Remote Items Availability Report** **OmniSupplier: * -- (ALL)** Page 1

OmniSupplier: OCANESTH -- Anesthesia Workstation	Remote Items Used	Remote Items Available	Percentage Consumed
Supply:	1	124	0.80%
Pharmacy:	1	74	1.33%

OmniSupplier: OCBLUE -- Blue Screen	Remote Items Used	Remote Items Available	Percentage Consumed
Supply:	2	123	1.60%
Pharmacy:	4	71	5.33%

OmniSupplier: OCCTTALL -- West Med	Remote Items Used	Remote Items Available	Percentage Consumed
Supply:	167	208	44.53%
Pharmacy:	0	75	0.00%

OmniSupplier: OCOMNIRX -- OmniRx	Remote Items Used	Remote Items Available	Percentage Consumed
Supply:	13	112	10.40%
Pharmacy:	8	67	10.67%

OmniSupplier: OCSUREMED -- Sure-Med	Remote Items Used	Remote Items Available	Percentage Consumed
Supply:	0	125	0.00%
Pharmacy:	0	75	0.00%

END OF REPORT

Figure 1-8. Remote Item Availability Report

4. Assign items as remote items.
   a. Click on the **Database** tab.
   b. Select the **Items** table.
   c. Click **Search**.
   d. Click on the applicable item, then click **Modify**.
   e. Select **Misc**. subtab (radio button).
   f. Select the **Remote Item** field, then enter the location.
   g. Click **Save**.

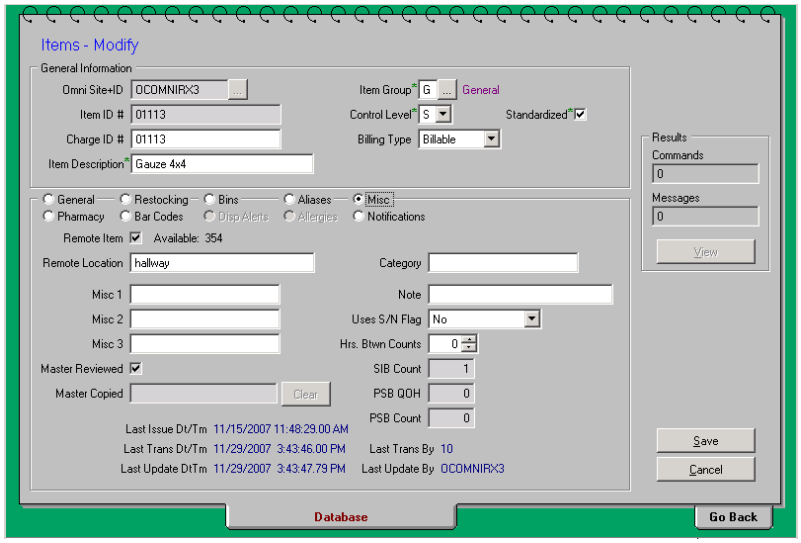

Figure 1-9. Database tab, Items Modify

OmniScanner Labels

Labels can only be set-up and printed from the OmniCenter.

1. Go to **Administration** tab > **OmniSupplier** Type.
2. Select **OmniSupplier Bin Labels**.
3. Click **Continue**.
4. Select Remote - Avery for Label Type.
5. Select the Omnisupplier name.
6. Select **Supply** under OmniSupplier.
7. Select the order by Item Name or Bin Number.
8. Select the items for which a label is needed by clicking on the item, then clicking **Select** or click **Select All**.

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9. Click **Preview** to review label setup before printing.

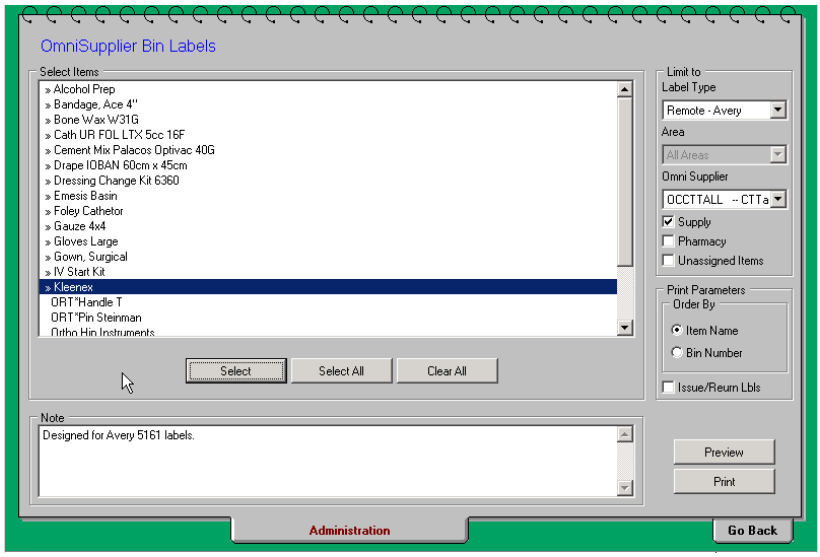

Figure 1-10. Administration tab, OmniSupplier Bin Labels

10. Click **Print**.

Figure 1-11. OmniScanner Bar Code

11. Create bar code labels for issue and return.
    a. Go to **Administration** tab > **OmniSupplier** Type.
    b. Select **OmniSupplier Bin Labels**, then click **Continue**.
    c. Select Remote - Avery for Label Type.
    d. Select the Omnisupplier name.
    e. Select **Supply** under OmniSupplier.
    f. Select the order by Item Name or Bin Number.

g. Select any item by clicking on the item, then clicking **Select**. The Issue and Return bar code will not print without an item bar code selected to print.

h. Select **Issue/Return Lbls**.

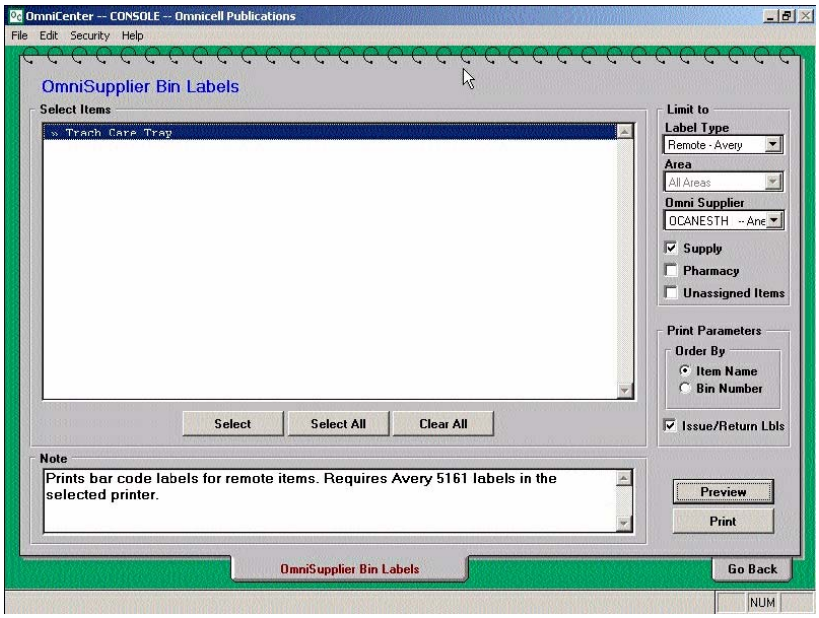

Figure 1-12. OmniSupplier Bin Labels: Printing the Issue and Return bar codes

i. Click **Preview** to review label setup before printing.

j. Click **Print.**

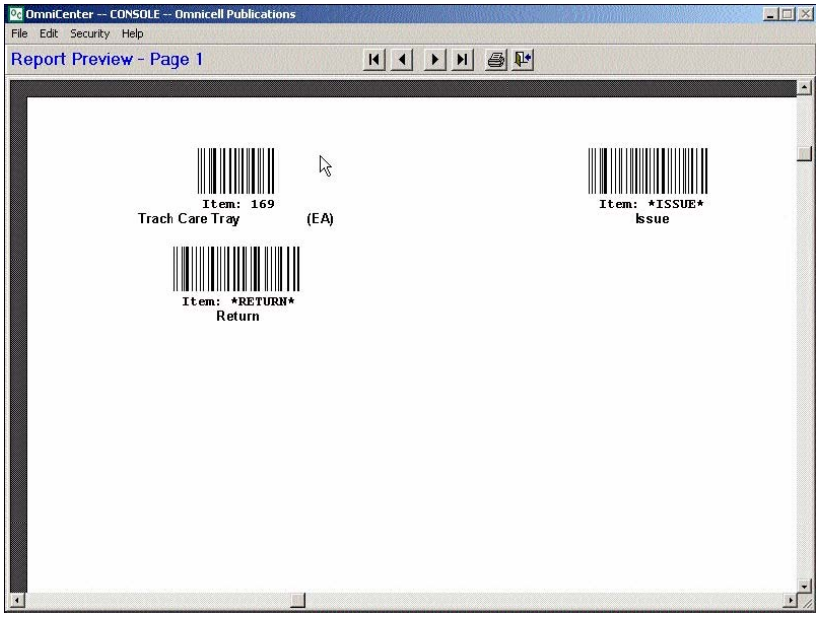

Figure 1-13. Preview: Preview the Issue and Return bar code create Bar Code Labels for Issue and Return

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OmniScanner Options

Menu Name	Cabinet 0 Type
Description	Designate the cabinet type
Values	0-36
Default	Varies
Note	For new and existing units, the Cabinet Type Configuration should already match the type of cabinet OmniScanner is being installed on. For retrofit OmniScanner Color Touch Consoles, change the Cabinet Type to Color Touch Console Omnicell Cabinet.

Table 1-1. Cabinet Type Configuration

Menu Name	OmniScanner Support
Description	Enables or disables OmniScanner support. Set this option to Yes, to enable OmniScanner functionality.
Values	Yes/No
Default	Nos

Table 1-2. Items

Cabinet/Cradle Wiring

1. Power down the system and disconnect the power cord.
2. Put on an ESD wrist strap and secure it to ground.
3. Access the PC box.
4. Plug both connectors of the Console-to-Keyboard cable (42-1201) to the USB Synapse cable.

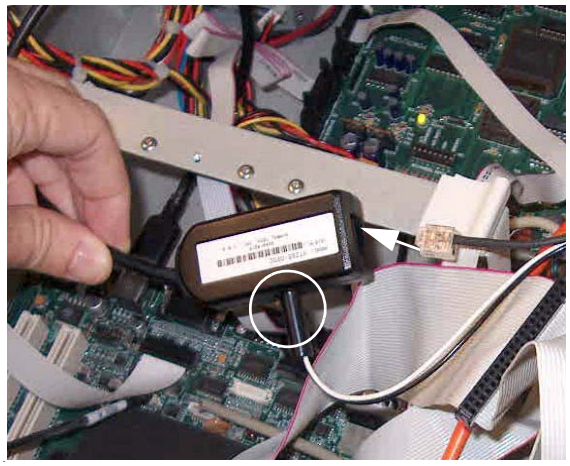

Figure 1-14. USB cable connection with console-to-keyboard cable

5. Attach the USB cable to the USB port on the motherboard.

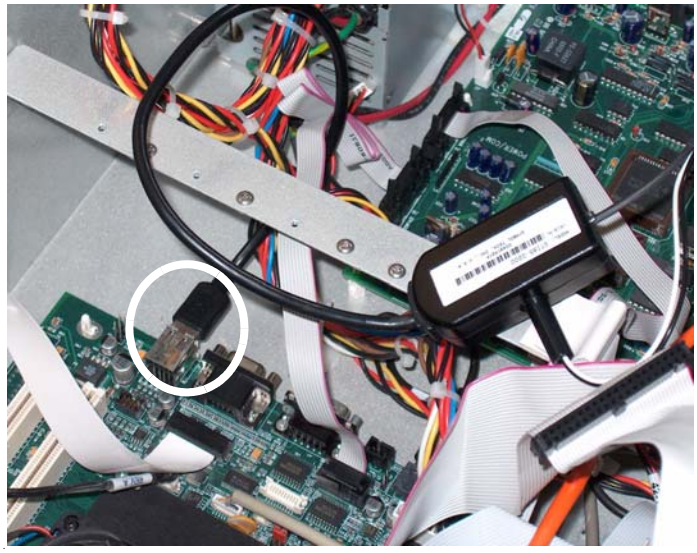

Figure 1-15. USB connection to mother board

Note: There are two ways to connect the OmniScanner in back of the PC box depending on the model. Older models use an auxiliary connector position. Newer models use a back plate (#53-1109) cutout to save the auxiliary port.

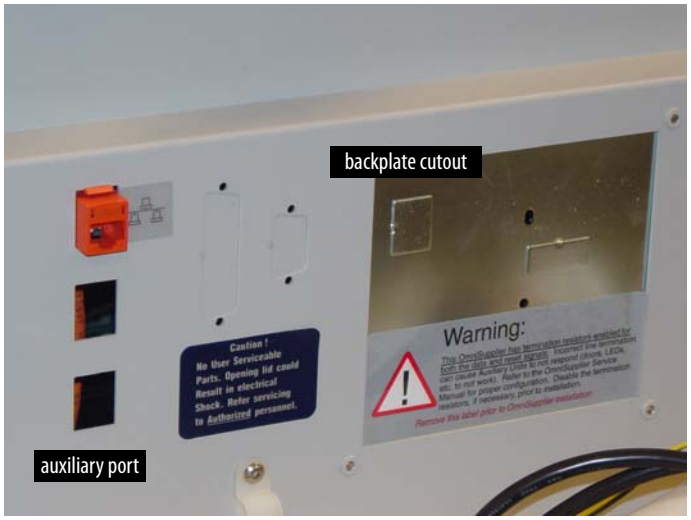

Figure 1-16. Auxiliary Port vs. Backplate

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Older Color Touch PC Boxes

Use an auxiliary connector position for the OmniScanner cable.

1. Remove the bottom auxiliary connector from the sheet metal on the cabinet back.

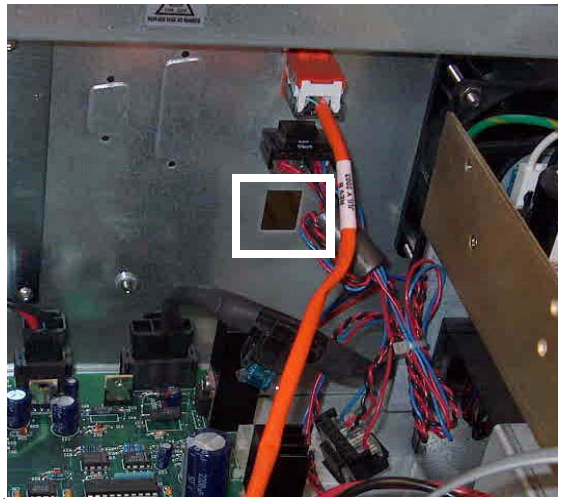

Figure 1-17. Connector slot

2. Insert the port at the other end of the Console-to-Keyboard cable (42-1201) into the empty auxiliary hole.

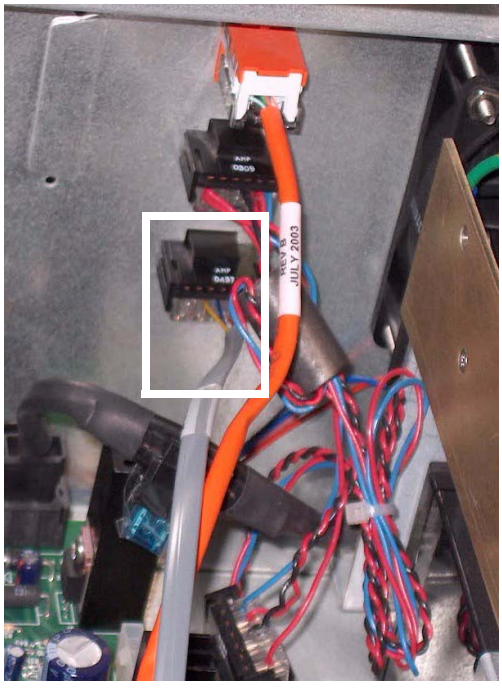

Figure 1-18. Scanner connector/internal cable

Newer Color Touch PC Box with Backplate

Save the auxiliary port by using a backplate (#53-1109) cutout for the OmniScanner cable.

1. Punch out the backplate cutout.

cutout
Warning:
This OmniSupplier has termination resistors enabled for both the data and reset signals. Incorrect line termination can cause Auxiliary Units to not respond (doors, LEDs, etc. to not work). Refer to the OmniSupplier Service Manual for proper configuration. Disable the termination resistors, if necessary, prior to installation.

Figure 1-19. Backplate cut out / Cutout punched out

2. Insert the port at the other end of the Console-to-Keyboard cable (42-1201) into the backplate hole.

Figure 1-20. Connecting Console-to-Keyboard cable(#42-1201) to backplate

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Cable Connection to the Cradle

1. Connect the six-wire RJ connector of the Scanner-to-Console cable (42-1200) to the Console-to-Keyboard cable port (42-1201).

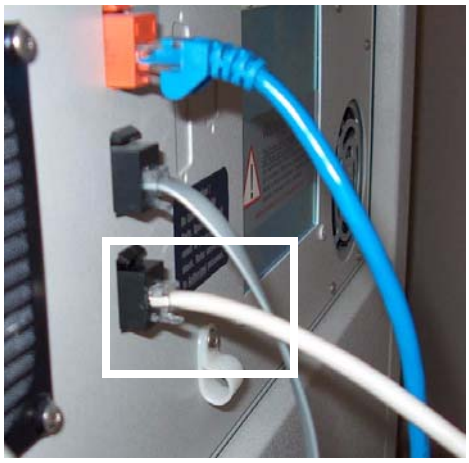

Figure 1-21. Scanner connector/external cable

2. Affix the scanner symbol label (#65-1057) on the back plate or PC box near the scanner connector.

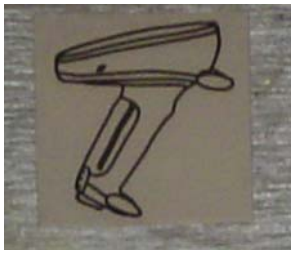

Figure 1-22. Scanner symbol sticker (#65-1057)

3. Plug the other end of the Scanner-to-Console cable (42-1200) into the RJ-45 data port of scanner cradle.

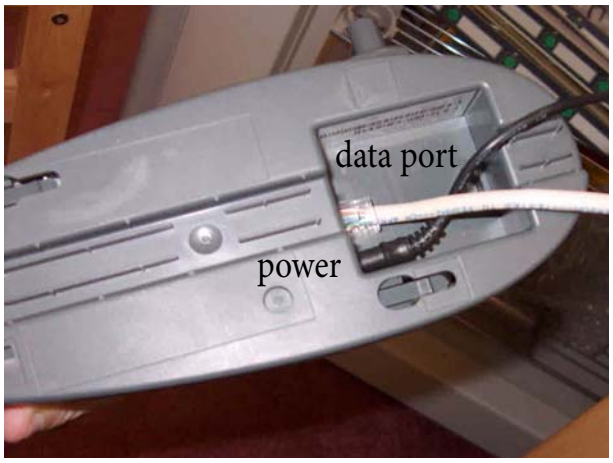

Figure 1-23. Cradle connections

4. Plug the power adapter cord into the cradle base next to the RJ-45 port.
5. Connect the female end of the power extension to the power adapter cord.

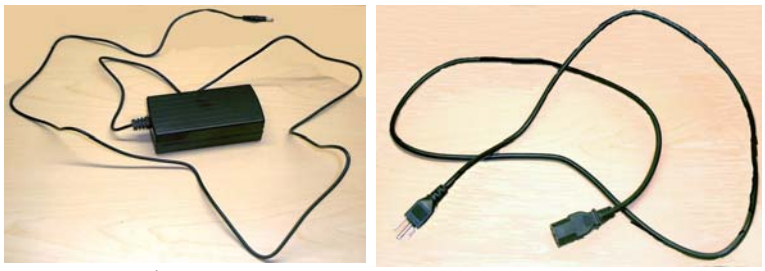

Figure 1-24. Scanner power cable and adapter

6. Plug the male end of the power extension into a power outlet.
7. Secure the PC box in place.
8. Remove the ESD wrist strap.
9. Connect the cabinet power cord and power up the PC box.

Cradle Mounting

The cradle can be mounted to the cabinet, a wall or placed on a mounted shelf.

Shelf Mount

Note: Screws are not included with the wall mount (70-6030).

Figure 1-25. Shelf

1. Use two screws to secure the wall mount (shelf) to the wall.
2. Place the cradle on the wall mount.
3. Place the scanner in the cradle. Make sure the heel of the scanner is secure in the cradle.
4. Allow the scanner to charge for 4 hours before using.

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Cabinet Mount

Note: Heavy-duty Velcro is not supplied with the kit.

1. Attach heavy-duty Velcro to the cabinet side with adhesive.
2. Attach heavy-duty Velcro to the bottom of the cradle with adhesive.

Figure 1-26. Velcro applied to cabinet side and bottom of cradle

3. Attach the cradle to the Velcro on the cabinet.

Figure 1-27. Cradle secured to cabinet

4. lace the scanner in the cradle. Make sure the heel of the scanner is secure in the cradle.

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Cradle to Wall

Figure 1-28. Cradle screws and manufacturer instructions

1. Drill two screw holes into the wall using 1/8 drill bit according to the template in the scanner documentation.
2. Insert and tighten the screws (supplied). The screw heads should extend from the wall.
3. Match the slots in the cradle back with the screw heads, then slide the cradle down over the screw heads to secure the cradle.

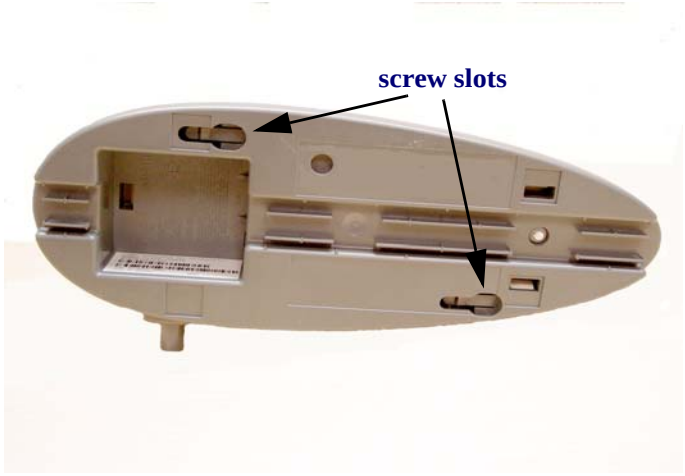

Figure 1-29. Screw slots on bottom of cradle

4. Place the scanner in the cradle. Make sure the heel of the scanner is secure in the cradle
5. Allow the scanner to charge for 4 hours before using.

Cradle On Desk/Table

The cradle can be secured on a table or desk top using rubber feet or Velcro strips.

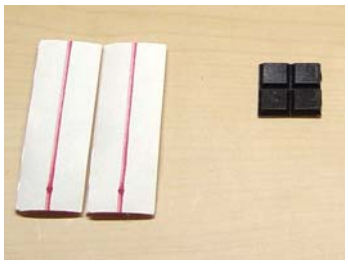

Figure 1-30. Velcro strips and rubber feet

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Rubber Feet. Attach four rubber feet (peel off adhesive cover) to the cradle bottom in the designated indentions. The cradle can still be moved around on the desk or table surface.

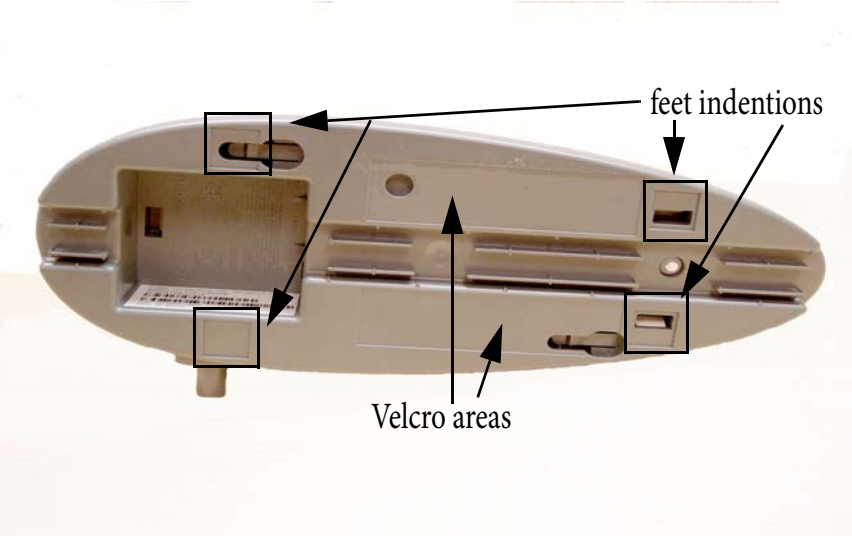

Figure 1-31. Locations for feet or Velcro strips on bottom of cradle

Velcro Strips. The Velcro strips will anchor the cradle down in one spot on the table or desk surface.

1. Attach Velcro strips (peel off adhesive cover) to bottom of cradle in the designated areas.
2. Attach Velcro strips to the desk top where the cradle is to be secured.
3. Align the Velcro strips on the cradle with those on the desk.
4. Press the cradle down to secure it.

Scanner Charging. The battery in the scanner may need charging.

1. Place the scanner in the cradle. Make sure the heel of the scanner is secure in the cradle
2. Allow the scanner to charge for 4 hours before using.

Scanner Pairing

1. Remove the scanner from the cradle.
2. Scan the pair barcode on the outside of the cradle or where the scanner nose is placed in the cradle.

Connection Verification

1. Log in at the cabinet.
2. Press **Diagnostics**.
3. Press **OmniScanner Diagnostics**.

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4. Press the down arrow button on the scanner or scan a Return barcode. The Status field should read: Scan was correct!

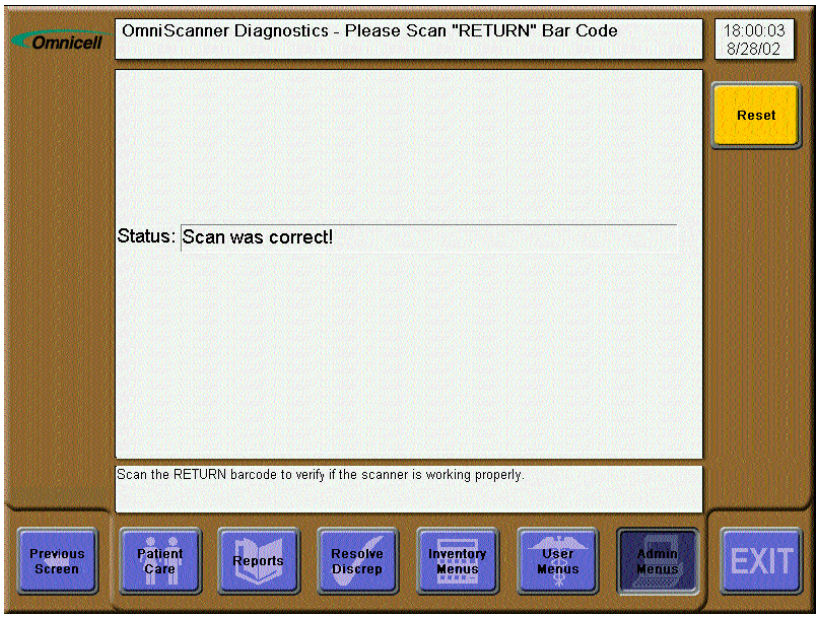

Figure 1-32. Diagnostic Menu - Scanner is enabled correctly

Connectivity Issues

If the Status field reads Wrong data scanned: Try again, scan a Return bar code.

If the Status field is blank, the hand held scanner may not be connected correctly.

1. Check the cradle wiring.
   a. Disconnect the power cable.
   b. Disconnect the communication cable.
   c. Connect the communication cable.
   d. Connect the power cable.
2. Re-initialize the scanner by pressing **Func**, then the star (*) keys.
3. Repeat the pairing process.

Version Upgrade

If upgrading from version1.0 to 2.0, see "Scanner Re-programming" on page 2-3. The scanner version can be upgraded through re-programing.

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Troubleshooting

Note: The scanner is programmed at the factory. The scanner can be re-programmed in the field if necessary.

This chapter provides tests and response actions for specified conditions should the scanner not work properly.

Communication Failure

If the scanner displays error messages after reading a bar code (sends no information to the computer), perform a pairing of the scanner and its cradle.

1. Scan the PAIRING bar code on the cradle.
2. Place the scanner in the cradle and wait a few seconds for four short beeps.

   If pairing fails, do the following steps:

   a. Press the **Func** key then the * (asterisk/star) key to reset the scanner.

   b. Scan the PAIRING bar code on the cradle.

   c. Place the scanner in the cradle and wait a few seconds for four short beeps.

   If pairing fails again, do the following steps:

   a. Press the **Func** key then the * (asterisk/star) key to reset the scanner.

   b. Disconnect the power cable from the cradle, then re-connect it.

   c. Scan the PAIRING bar code on the cradle.

   d. Place the scanner in the cradle and wait a few seconds for four short beeps.

   If pairing still fails, do the following steps:

   a. Press the **Func** key then the * (asterisk/star) key to reset the scanner.

   b. Disconnect the serial cable from the cradle, then re-connect it.

   c. Disconnect the power cable from the cradle, then re-connect it.

   d. Scan the PAIRING bar code on the cradle.

   e. Place the scanner in the cradle and wait a few seconds for four short beeps.

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Programming Test

If the scanner reads a bar code with no errors, but the Color Touch software does not recognize the item, do the following steps:

1. Go to the Color Touch OmniScanner Diagnostics window.

Note: The OmniScanner Support must be turned on from the Configuration / Items list.

   a. Login as an OmniTech user.

   b. Click on **Diagnostics** to display the general diagnostics window.

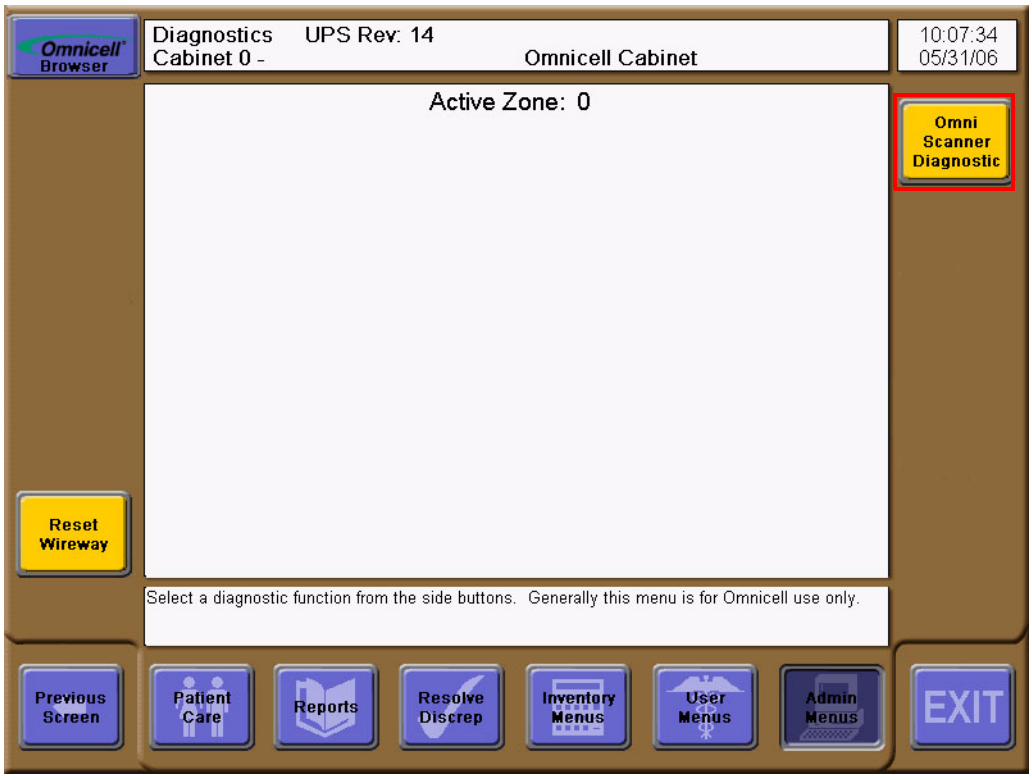

Figure 2-1. General Diagnostics window

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c. Click on **OmniScanner Diagnostics** to display the scanner diagnostics window.

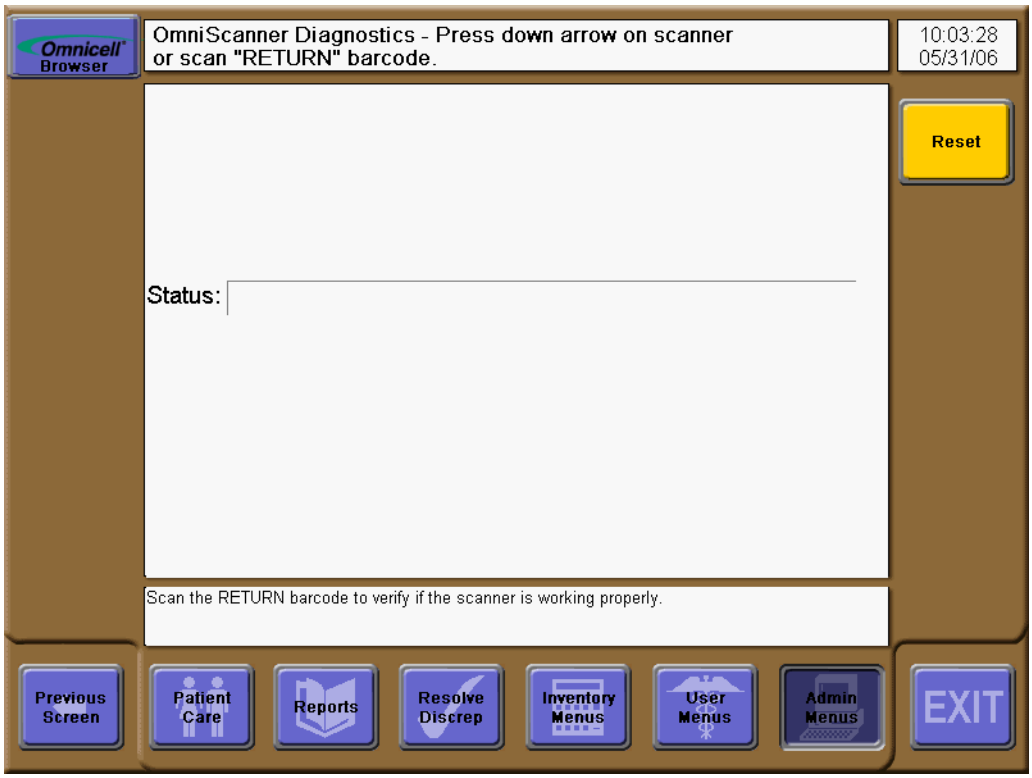

Figure 2-2. Scanner Diagnostics

2. Scan the return label.

Important: If the Color Touch message says that the scanner is not programmed properly, follow the steps in the "Scanner Re-programming" section.

3. Click on **Reset** to clear the status.
4. Click on **Previous Screen** twice to return to the admin functions window.

Scanner Re-programming

Note: The re-programming steps can be used for upgrading an existing OmniScanner with version1.0 software to version 2.0.

Requirements

- A special Symbol serial cable (#91-0009)
- Symbol P370/P470 with cradle

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- CD #30-1000
  - SBL_LINK_W32_026003_LITE.EXE
  - Omni2.PRJ folder

  or files downloaded from Agile:
  - SBL_LINK_W32_026003_LITE.EXE
  - Omni2.PRJ.ZIP

Programming Station Setup

1. Insert the CD into the CR-ROM drive.
2. Open the CD drive, then double click on SBL_Link_W32_026003_lite.exe.

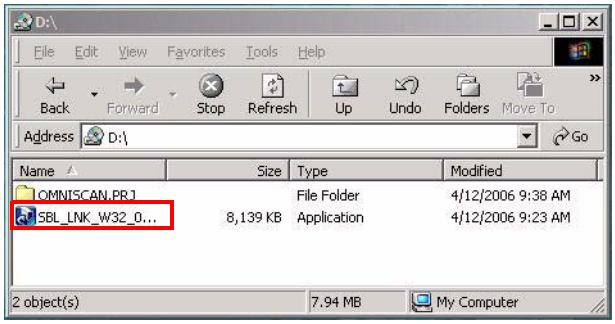
D:\
File Edit View Favorites Tools Help
Back Forward Stop Refresh Up Undo Folders Move To
Address D:\
Go
Name Size Type Modified
OMNISCAN.PRJ File Folder 4/12/2006 9:38 AM
SBL_LNK_W32_0... 8,139 KB Application 4/12/2006 9:23 AM
2 object(s) 7.94 MB My Computer

Figure 2-3. Accessing the CD Drive

3. Accept all defaults. It installs the Link Lite program into C:\MCL\PHASER\linklite_2.60.03.

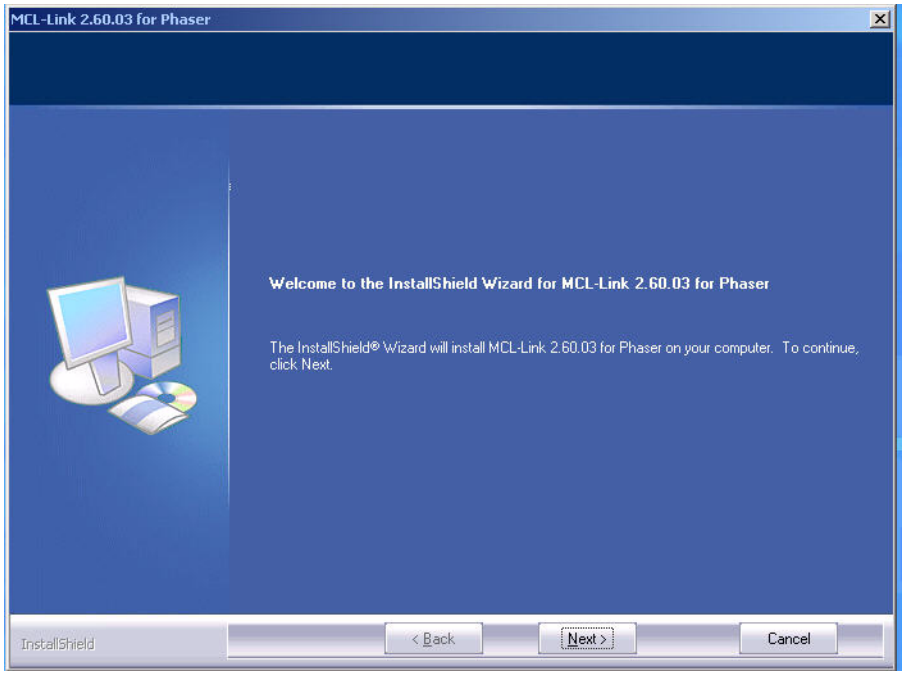
MCL-Link 2.60.03 for Phaser
Welcome to the InstallShield Wizard for MCL-Link 2.60.03 for Phaser
The InstallShield® Wizard will install MCL-Link 2.60.03 for Phaser on your computer. To continue, click Next.
InstallShield
< Back
Next >
Cancel

Figure 2-4. Starting the MCL linklite installation

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4. In the MCL-Link Lite for Phaser window, click Setup and then path. Verify that the General Path for MCL Projects is as follows: C:\MCL\PHASER\LINKLITE_2.60
5. Use the browser (magnifying glass icon) to locate correct path if necessary.
6. Click the green arrow to accept the selection.

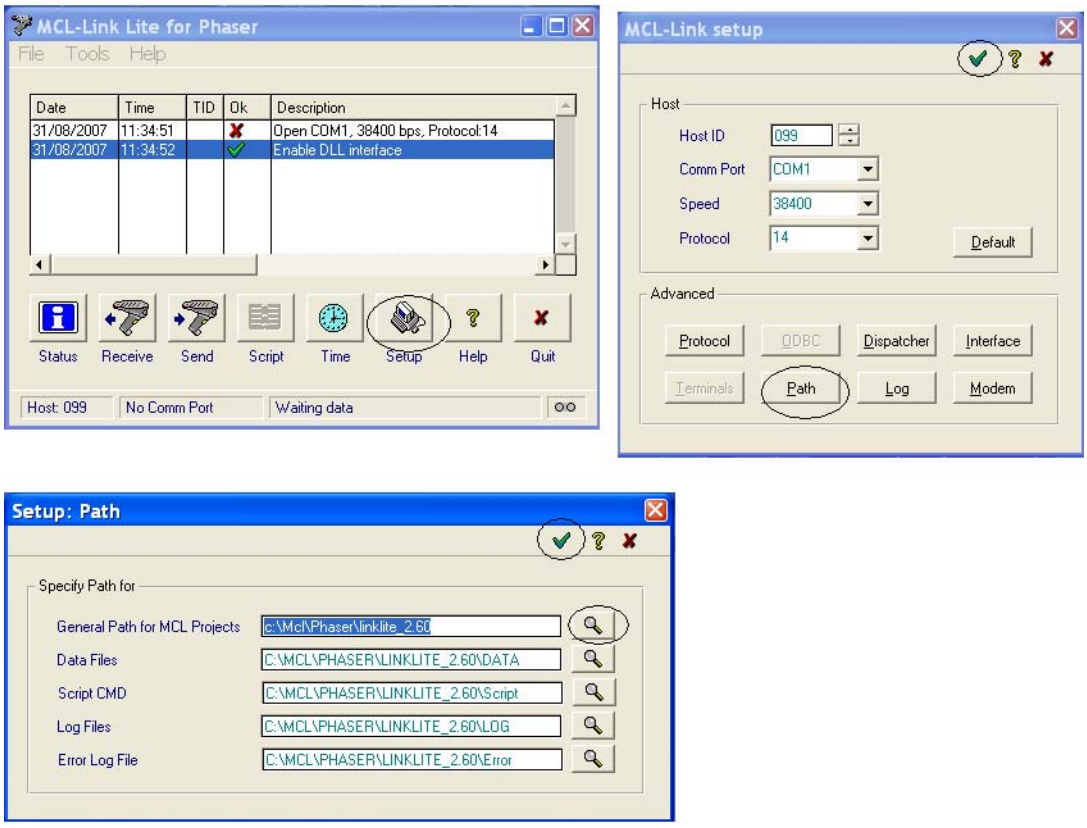

Figure 2-5. MCL-Link, Path windows

7. Copy Omni2.PRJ folder From the CD drive into the following directory: C:\MCL\PHASER\LINKLITE_2.60
8. If using files from Agile, unzip and drag the folder into the C:\MCL\PHASER\LINKLITE_2.60 directory path.
9. Attach the special serial cable to the computer's COM port and the scanner cradle.
10. Plug in the cradle's power cable.
11. Place the scanner in its cradle and allow at least 1 hour for charging prior to programming.

Scanner Programming

1. Pair the scanner with its cradle.
   a. Scan the PAIRING bar code on the cradle.
   b. Place the scanner in the cradle and wait a few seconds for four short beeps.
2. Double click mcllink.exe in the C:\MCL\PHASER\linklite_2.60.03 directory.
3. If Open COMx (x is the port number), 38400 bps, Protocol 14 is accepted with a green check, go to step 5.

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4. If Open COMx, 38400 bps, Protocol 14 is not connected and a red X appears, do the following steps:
   a. Select **Setup**.
   b. Change Comm Port to the appropriate communication port—every computer is different.
   c. Select the green check to accept. The screen shots below illustrate a COM4 setup.

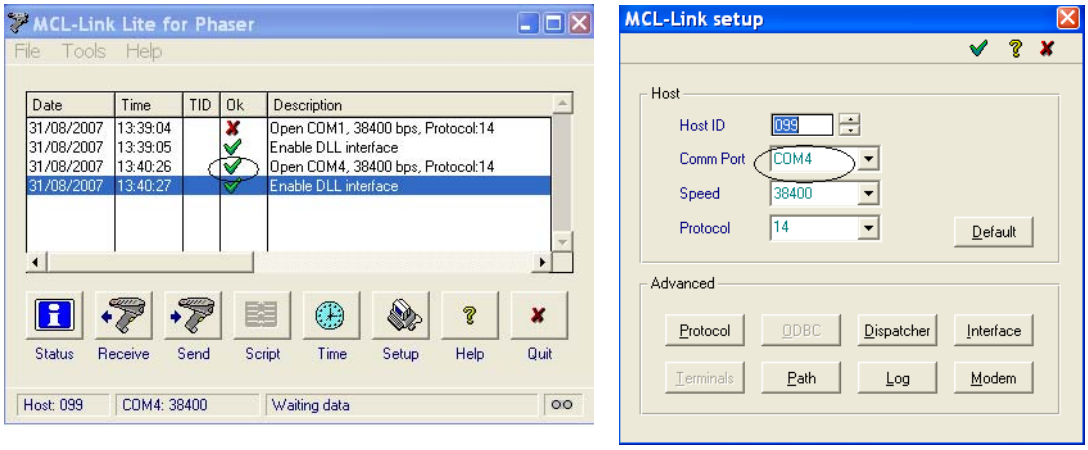

Figure 2-6. MCL Link Setup

5. Select **Send File** from the Tools menu or the **Send** screen button.

MCL-Link Lite for Phaser
File Tools Help
Date Time TID Ok Description
30/05/2006 15:15:50 Open COM1, 38400 bps, Protocol:14
30/05/2006 15:15:51 Enable DLL interface
Status Receive Send Script Time Setup Help Quit
Host: 099 COM1: 38400 Waiting data

Figure 2-7. Using the MCL linklite window

6. Make sure the proper COM port is selected.

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7. Click on the browse button (with icon of magnifying glass) to find Omni2.prj. The file path should be: c:/mcl/phaser/linklite_2.60.03/Omni2.prj

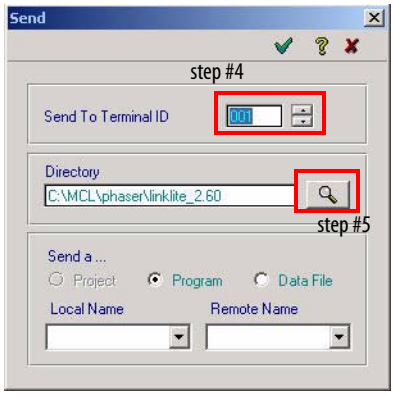

Figure 2-8. Opening the Send window

8. Click on the green check mark to select omniscan.prj.

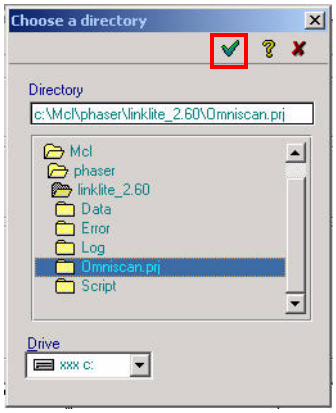

Figure 2-9. Using the Search window

9. Place the scanner into download mode.
   a. Press the **Func** key, then immediately press the ***** (asterisk/star) key.
   b. Quickly press the **Func** key again, then the **BK** key.
   c. Press the down arrow key to go from System Setup to App Control.
   d. Press the **Enter** key to see **Load App** menu item.
   e. Press the **Enter** key again to see the **Load New App** menu item.
   f. Press the **Enter** key again to initiate load mode.
   g. Place the scanner in the cradle, then quickly press the green check mark in the Send window [Figure 2-8].

Note: It takes a few seconds for the download to be completed. The scanner will then reset itself.

Program Revision Check

1. Press the **Func** key then the ***** (asterisk/star) key to reset the scanner.
2. Look for the program revision which displays briefly when the program is re-started.

This concludes the programming procedure for a properly functioning scanner.

Important: If there is a problem during programming and the scanner stops functioning properly, go back to the default application setting (steps below) before re-starting the programming steps.

Default Application Setting

1. Press the **Func** key, then press the ***** (asterisk/star) key.
2. Quickly press the **Func** key again, then the **BK** key.
3. Press the down arrow key to go from System Setup to App Control.
4. Press the **Enter** key, to see **Load App** menu item.
5. Press the down arrow key to go from Load App to Set Default App.
6. Press the **Enter** key to go from Set Default App to Reset Default App?
7. Press the **Enter** key again to reset the default app, or press the **BK** key to cancel.

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Parts List

The following kits make up the OmniScanner assembly.

Kit #	Item #	Item Description	Notes	Qty
12-6014		OmniScanner	Manufacturing Assembly	
	12-1254	Mfg. programmed Scanner Kit		1
	42-1200	Console to Scanner Cable		1
	42-1201	Keyboard to Console Cable		1
	60-0132	OmniScanner 2.0 User Guide		1
	65-1057	Scanner Console Label		1
	88-0022	USB Synapse Cable		1

Table A-1. Kit # 12-6014

Kit #	Item #	Item Description	Notes	Qty
20-6000		Symbol P370 Scanner Kit	cordless, handheld, RSS	
	70-0900	Scanner Cradle	RSS Firmware	1
	70-6050	P370 Scanner		1
	74-1038	Power Supply Adapter	90-264V AC, 9V DC 2A, EPS, 2 Pos, ROHS	1
	74-1039	Power Cord	6 ft., 18 AWG, ROHS	1
	74-2001	Battery Pack	3.6V, 1620, P/N SY47L1-E	1

Table A-2. Kit # 20-6000

Kit #	Item #	Item Description	Notes	Qty
20-0122		KIT, P370 Scanner, Field Upgrade	OmniScanner version, RSS	
	20-0117	KIT, P370 Scanner, Field Upgrade	Non-OmniScanner version, RSS	1
	30-1002	MCL Link Lite (2.0 software)	with data files	1
	60-0124	OmniScanner Installation Guide	+ troubleshooting	0
	91-0009	RS232 Cable	for Symbol P370/P470	1

Table A-3. Kit #20-0122 -RSS Upgrade Kit

The Rioux mounting shelf (70-6030) must be ordered separately. Velcro squares for cabinet mounting is not available through Omnicell—it must be purchased from a third party. The scanner cradle does comes with screws for wall mounting or feet tabs/Velcro strips for sitting on a desk/table.

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